Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start		Rating **	Α	Issue No.		4		
LM End		Issue Type +	Ма	Location *	ocation * N/A			
Category Earthen Levee			GPS La	atitud	e/Longitude			
Category	gory			Start		End		
Item	Operations & Maintenance Manuals				0		0	
пеш					0		0	
DWR ID	WR ID DWR_MA0003_01_s _ 2013_4							
		Action/	Comme	nts				
Inspector (Comments	: Sutter Yard	has a co	py of the O	&M	manuals.		

No Photos

LM Start		Rating **	Α	Issue No.		6	
LM End		Issue Type +	Ma	Location *		N/A	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory		Start		End			
Item	Emergency Supplies &				0		0
пеш	Equipmer		0		0		
DWR ID	DWR_MA0	003_01_s _ 201					
Action/Comments							

Inspector Comments: The Sutter Yard has adequate flood fight supplies

and equipment.

No Photos

LM Start		Rating **	Α	Issue No.		7	
LM End		Issue Type +	Ма	Location *		N/A	
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Flood Preparedness & Training				0		0
пеш					0		0
DWR ID	DWR_MA0	003_01_s _ 201	3_7				
		Action/	Commer	nts			

No Photos

Inspector Comments: The Sutter Yard has received flood fight training.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start	0.01	Rating **	М	Issue No.		8	
LM End	5.10	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS La	tituc	le/Longitude		
Calegory			Start		End		
Item	Vegetatio	Vegetation			32 °		0
пеш			-121.61792	23 °		0	
DWR ID DWR_MA0003_01_s _ 2015_8							
Action/Comments							

Control annual grass and weeds on the levee slopes and easements.

Photo 1 of 1: SP_2015_MA0003_195_8_20150421_00011.jpg



Photo of vegetation taken looking upstream at the landside of the levee.

LM Start	0.05	Rating **	М	Issue No.		12	
LM End	5.10	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS La	atituc	de/Longitude	
Calegory		Start		End			
Item	Vegetation			38.89787	74 °		0
пеш			-121.61709	92 °		0	
DWR ID DWR_MA0003_01_s _ 2015_12							
		A otion/	Commo	nto			

Control annual grass and weeds on the levee slopes and easements.

No Photos

LM Start	0.05	Rating **	М	Issue No.	9				
LM End	0.05	Issue Type +	Ma	Location *	CR				
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Crown Su Rutting	ssions /	38.89787	78 °	38.897878	0			
пеш		-121.61708	38 °	-121.617088	0				
DWR ID DWR_MA0003_01_s _ 2015_9									
		Action/	Comme	nts					

Repair depressions or ruts in the crown or slope.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W: Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

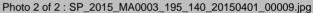
LM Start	0.78	Rating **	U	Issue No.		140		
LM End	0.78	Issue Type +	Ma	Location *	N/A			
Catagony	Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item		rface / Depres	ssions /	38.9033	39 °	38.903339	0	
пеш	Rutting			-121.60620	09 °	-121.606209	0	
DWR ID DWR_MA0003_01_f _ 2014_140								
Action/Comments								

Repair depressions or ruts in the crown or slope. Inspector Comments: There is a sinkhole on the landward toe road approximately 12" in diameter leading to the adjacent drainage ditch.



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 12" sink hole going from the toe road to the adjacent drainage ditch that parallels the toe road. Fall 2014.

LM Start	0.78	Rating **	U	Issue No.	140 (cont)
LM End	0.78	Issue Type +	Ma	Location *	N/A





This is another photo of the sink hole to show its relationship to to levee toe, toe road, and drainage ditch. Fall 2014.

A: Acceptable : Minimally Acceptable

N: Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start	0.80	0.80 Rating ** M		Issue No.		5
LM End	0.80	Issue Type +	Ma	Location *	LS	
Category Systems			GPS Latitude/Longitude			
Calegory	Systems			Start		End
Item	Sluice / S	lide Gates		38.9032	91 °	38.903291
item				-121.6057	47 °	-121.605747
DWR ID DWR_MA0003_01_s _ 2012_5						
		Action/	Comme	nts		

Inspector Comments: This pipe leaked during the high water event of 2010/2011.



Levee mile 0.80, this photo is looking at the landside toe, one of these pipes leaked during the high water event of 2010/2011. A flap gate prevents flow from the waterward side to the landward side of the levee.

LM Start	1.51	Rating **	М	Issue No. 13		13	
LM End	1.51	Issue Type +	Ma	Location *	CR		
Category	Catagoni Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item		rface / Depres	ssions /	38.9046	80°	38.904680	0
item	Rutting			-121.5942	29 °	-121.594229	0
DWR ID DWR_MA0003_01_s _ 2015_13							
Action/Comments							

Repair depressions or ruts in the crown or slope.



Photo of a depression in the crown, taken looking at the landside.

LM Start	1.77	Rating **	М	Issue No.		14	
LM End	1.77	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		38.9070	25 °	38.907025	٥
пеш				-121.5903	75 °	-121.590375	٥
DWR ID	DWR_MAG	0003_01_s _ 201	15_14			'	
			_				

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start	2.18	Rating **	М	Issue No.		15
LM End	2.18	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End
Item	Trim / Thin Trees			38.91186	9°	38.911869 °
пеш				-121.58609	93 °	-121.586093 °
DWR ID	DWR_MAG	003_01_s _ 201	5_15			
Action/Comments						
Trim trees	Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.18	Rating **	М	Issue No.	18		
LM End	2.18	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Item	Animal Co	ontrol		38.91186	69°	38.911869 °	
пеш				-121.58609	93 °	-121.586093 °	
DWR ID DWR_MA0003_01_s _ 2015_18							
	Action/Comments						

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

LM Start	3.20	Rating **	M	Issue No.	20			
LM End	3.20	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start End					
Itom	Slope Sta	bility		38.9259	09 °	38.925909	0	
пеш	Item			-121.5854	01 °	-121.585401	0	
DWR ID DWR_MA0003_01_s _ 2015_20								
	Action/Comments							

Photo 1 of 1 : SP_2015_MA0003_195_20_20150421_00013.jpg



Photo of slope on the landside faceing upstream, areas with little vegetation appear to have eroded leaving the crown smaller.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side

Repair slope instability.

* Rating

A: Acceptable

M: Minimally Acceptable

U: Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start	3.59	Rating **	М	Issue No.	19	
LM End	3.59	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory	y			Start		End
Item	Vegetatio	n		38.9300	63 °	38.930063 °
пеш				-121.5902	11 °	-121.590211 °
DWR ID DWR_MA0003_01_f _ 2013_19						·
	Action/Comments					

Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberries on the landward levee toe.



This photo was taken from the levee crown facing south looking down the landward levee slope at a group of Elderberries. Fall 2013.

LM Start	4.15	Rating **	М	Issue No. 10		10
LM End	4.18	Issue Type +	Ма	Location *	WS	
Category			GPS Latitude/Longitude			
Calegory			Start		End	
Item	USACE E	rosion Survey	′	38.93745	54 °	38.937937 °
пеш				-121.58854	14 °	-121.588471 °
DWR ID DWR_MA0003_01_f _ 2014_10						
		Action/	Commo	ntc		

bank slope. Site is within ecological reserve. [2013 Site ID: FHR_12-

3_R]

LIVI Start	4.13	rtating	IVI	13346 140.	10			
LM End	4.18	Issue Type +	Ma	Location *	WS			
Category	Supplemental			GPS Latitude/Longitude				
		Start		End				
Item	USACE Erosion Survey			38.9374	54 °	38.937937	0	
		-121.5885	44 °	-121.588471	0			
DWR ID	D DWR_MA0003_01_f _ 2014_10							
		Action/	Comme	nts				
Inspector	Comments	: 2013: Minor	toe sco	ur causing (gradi	ual erosion of		

LM Start	4.15	Rating **	М	Issue No.	10 (cont)
LM End	4.18	Issue Type +	Ma	Location *	WS

Photo 1 of 2: SP_2015_MA0003_195_10_20150401_00002.jpg



USACE 2013 Photo #1

Photo 2 of 2: SP_2015_MA0003_195_10_20150401_00003.jpg



USACE 2013 Photo #2

Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS : Land Side N/A : Not Applicable N: Not Inspected/Rated A : Acceptable WS: Water Side : Minimally Acceptable : Corrected CR : Crown U : Unacceptable A/W: Acceptable but Monitor & Maintain En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/17/2015 04/17/2015	Michael Pitta

LM Start	4.71	Rating **	М	Issue No.	11				
LM End	4.76	Issue Type +	Ма	Location *	WS				
Category	Supplemental			GPS Latitude/Longitude					
Calegory			Start		End				
Item	USACE Erosion Survey			38.94519	o°	38.945967 °			
пеш			-121.58607	3°	-121.586328 °				
DWR ID DWR_MA0003_01_f _ 2014_11									
Action/Comments									

Inspector Comments: 2013: Minor toe scour causing gradual erosion into the bank slope [2013 Site ID: FHR_12-8_R]



USACE 2013 Photo #1

LM Start	4.71	Rating **	M	Issue No.	11 (cont)
LM End	4.76	Issue Type +	Ma	Location *	WS



USACE 2013 Photo #2